

Appln No.: 10/604,166
Amendment Dated: May 2, 2006
Reply to Office Action of January 4, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

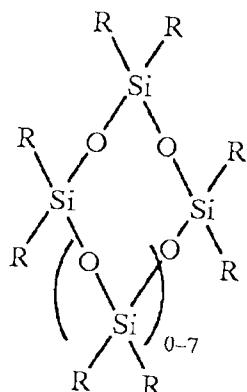
1. (previously presented) A polycarbonate composition comprising:

- (a) polycarbonate produced in a base-catalyzed melt polymerization reaction to which an acidic quencher has been added in a 1 to 30-fold molar ratio with respect to the amount of initial basic catalyst; and
- (b) a flame-retardant component comprising a potassium perfluoroalkane sulfonate and a cyclic siloxane, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 2 mm and has a haze of no more than 1%.

2. (original) The composition of claim 1, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is a sodium salt.

3. (original) The composition of claim 2, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.

4. (original) The composition of claim 3, wherein the cyclic siloxane has the formula:



Appln No.: 10/604,166

Amendment Dated: May 2, 2006

Reply to Office Action of January 4, 2006

wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon atoms.

5. (original) The composition of claim 4, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

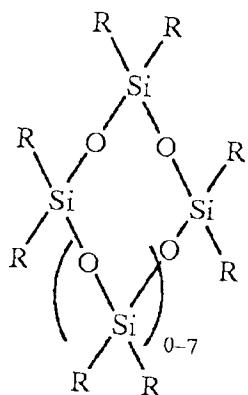
6. (original) The composition according to claim 5, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

7. (original) The composition according to claim 5, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

8. (original) The composition according to claim 4, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

9. (original) The composition according to claim 4, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

10. (original) The composition of claim 2, wherein the cyclic siloxane has the formula:



wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon atoms.

Appln No.: 10/604,166

Amendment Dated: May 2, 2006

Reply to Office Action of January 4, 2006

11. (original) The composition of claim 10, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

12. (original) The composition according to claim 11, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

13. (original) The composition according to claim 11, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

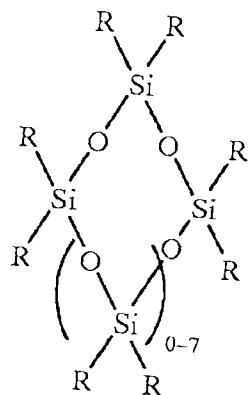
14. (original) The composition according to claim 10, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

15. (original) The composition according to claim 10, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

16. (original) The composition of claim 2, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is sodium hydroxide.

17. (original) The composition of claim 16, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.

18. (original) The composition of claim 17, wherein the cyclic siloxane has the formula:



Appln No.: 10/604,166

Amendment Dated: May 2, 2006

Reply to Office Action of January 4, 2006

wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon atoms.

19. (original) The composition of claim 18, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.

20. (original) The composition according to claim 19, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

21. (original) The composition according to claim 19, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

22. (original) The composition according to claim 18, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

23. (original) The composition according to claim 18, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

24. (previously presented) The composition according to claim 1, wherein the molar ratio is from about 2 to 25.

25. (previously presented) The composition according to claim 1, wherein the molar ratio is from 2.4 to 24.

26. (new) The composition according to claim 16, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

27. (new) The composition according to claim 16, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.

28. (new) The composition according to claim 2, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.

29. (new) The composition according to claim 2, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.